

**CCSS Mathematics "I Can" Standards
Ratios & Proportional Relationships
Seventh Grade**

Indicator	Date Taught	Date Retaught	Date Reviewed	Date Assessed	Date Re-Assessed
Analyze proportional relationships and use them to solve real-world and mathematical problems.					
<p>CCSS.MATH.CONTENT.7.RP.A.1 I can calculate the unit rate for real life situations by breaking down the ratio (fractions) by dividing to solve the problem to find the relationship between two units.</p>					
<p>CCSS.MATH.CONTENT.7.RP.A.2 I can recognize and represent a proportion as a statement of equality between two ratios.</p>					
<p>CCSS.MATH.CONTENT.7.RP.A.2.A I can analyze two ratios to determine if they are proportional to one another with a variety of strategies (ex: using tables, graphs or pictures).</p>					
<p>CCSS.MATH.CONTENT.7.RP.A.2.B I can define constant of proportionality as a unit rate.</p>					
<p>CCSS.MATH.CONTENT.7.RP.A.2.B I can analyze tables, graphs, equations, diagrams and verbal descriptions to identify unit rate.</p>					
<p>CCSS.MATH.CONTENT.7.RP.A.2.C I can represent proportional relationships by writing equations.</p>					
<p>CCSS.MATH.CONTENT.7.RP.A.2.D I can explain what the points on a graph of a proportional relationship mean in terms of a specific situation and recognize what (0,0) and (1,r) on a graph represents, where r is the unit rate.</p>					
<p>CCSS.MATH.CONTENT.7.RP.A.3 I can apply proportional reasoning to solve multistep ratio and percent problems (ex: simple interest, tax, markups, markdowns, gratuities, commissions, fees, percent increase and decrease or percent errors).</p>					

CCSS Mathematics "I Can" Standards
The Number System
Seventh Grade

Indicator	Date Taught	Date Retought	Date Reviewed	Date Assessed	Date Re-Assessed
Apply and extend previous understandings of operations with fractions.					
CCSS.MATH.CONTENT.7.NS.A.1 I can apply what I have learned about addition and subtraction to add and subtract rational numbers.					
CCSS.MATH.CONTENT.7.NS.A.1 I can show addition and subtraction on a horizontal or vertical number line diagram.					
CCSS.MATH.CONTENT.7.NS.A.1.A I can describe situations where opposite quantities combine to make 0 (ex: A hydrogen atom has 0 charge because its two constituents are oppositely charged.).					
CCSS.MATH.CONTENT.7.NS.A.1.B I can represent and explain how a number and its opposite have a sum of 0 and are additive inverses.					
CCSS.MATH.CONTENT.7.NS.A.1.B I can demonstrate and explain how when adding two numbers $p + q$: *if q is positive, the sum of p and q will be $ q $ spaces to the right of p on a number line; *if q is negative, the sum of p and q will be $ q $ spaces to the left of p on a number line.					
CCSS.MATH.CONTENT.7.NS.A.1.B I can explain and justify why the sum of $p + q$ is located a distance of $ q $ in the positive or negative direction from p on a number line.					

Indicator	Date Taught	Date Retaught	Date Reviewed	Date Assessed	Date Re-Assessed
Apply and extend previous understandings of operations with fractions. (continued)					
<p>CCSS.MATH.CONTENT.7.NS.A.1.C I can represent how the distance between two rational numbers on a number line is the absolute value of their difference and apply this to real-world situations.</p>					
<p>CCSS.MATH.CONTENT.7.NS.A.1.C I can identify subtraction of rational numbers as adding the additive inverse property to subtract rational numbers, $p - q = p + (-q)$.</p>					
<p>CCSS.MATH.CONTENT.7.NS.A.1.D I can use properties of operations as strategies to add and subtract rational numbers.</p>					
<p>CCSS.MATH.CONTENT.7.NS.A.2 I can apply what I have learned about multiplication and division of fractions to multiply and divide rational numbers.</p>					
<p>CCSS.MATH.CONTENT.7.NS.A.2.A I can recognize and describe the rules when multiplying signed numbers and apply the order of operations, particularly the distributive property, to multiply rational numbers (ex: $(-1)(-1)=1$).</p>					
<p>CCSS.MATH.CONTENT.7.NS.A.2.A I can use the products of rational numbers to describe real-world situations.</p>					
<p>CCSS.MATH.CONTENT.7.NS.A.2.B I can explain why integers can be divided except when the divisor is 0 and describe why the quotient is always a rational number.</p>					
<p>CCSS.MATH.CONTENT.7.NS.A.2.B I can understand and describe the rules when dividing signed numbers and integers and recognize that $-(p/q) = (-p)/q = p/(-q)$.</p>					
<p>CCSS.MATH.CONTENT.7.NS.A.2.B I can use the quotient of rational numbers to describe real-world situations.</p>					

Indicator	Date Taught	Date Retaught	Date Reviewed	Date Assessed	Date Re-Assessed
Apply and extend previous understandings of operations with fractions. (continued)					
<p>CCSS.MATH.CONTENT.7.NS.A.2.C I can identify how properties of operations can be used to multiply and divide rational numbers (ex: distributive property, multiplicative inverse property, multiplicative identity, commutative property for multiplication and associative property for multiplication.)</p>					
<p>CCSS.MATH.CONTENT.7.NS.A.2.D I can change a rational number to a decimal using long division and explain how the decimal form of a rational number stops in zeroes or repeats.</p>					
<p>CCSS.MATH.CONTENT.7.NS.A.3 I can add, subtract, multiply and divide rational numbers.</p>					
<p>CCSS.MATH.CONTENT.7.NS.A.3 I can solve real-world problems by adding, subtracting, multiplying, and dividing rational numbers, including complex fractions.</p>					

CCSS Mathematics "I Can" Standards
Expressions and Equations
Seventh Grade

Indicator	Date Taught	Date Retaught	Date Reviewed	Date Assessed	Date Re-Assessed
Use properties of operations to generate equivalent expressions.					
CCSS.MATH.CONTENT.7.EE.A.1 I can apply properties of operations to add, subtract, factor and expand linear expressions with rational coefficients.					
CCSS.MATH.CONTENT.7.EE.A.1 I can combine like terms to factor and expand linear expressions with rational coefficients using the distributive property.					
CCSS.MATH.CONTENT.7.EE.A.2 I can use properties of operations to write equivalent expressions.					
CCSS.MATH.CONTENT.7.EE.A.2 I can rewrite an expression in a different form if needed.					
Solve real-life and mathematical problems using numerical and algebraic expressions and equations.					
CCSS.MATH.CONTENT.7.EE.B.3 I can apply properties of operations to calculate numbers in any form and convert between numerical forms when necessary.					
CCSS.MATH.CONTENT.7.EE.B.3 I can solve multi-step real-world and mathematical problems using positive and negative rational numbers in any form (whole numbers, fractions and decimals).					
CCSS.MATH.CONTENT.7.EE.B.3 I can determine if an answer makes sense using mental computation and estimation strategies.					

Indicator	Date Taught	Date Retought	Date Reviewed	Date Assessed	Date Re-Assessed
Solve real-life and mathematical problems using numerical and algebraic expressions and equations. (continued)					
<p>CCSS.MATH.CONTENT.7.EE.B.4 I can use variables to represent numbers in real-world or mathematical problems and make reasonable simple equations and inequalities to solve problems.</p>					
<p>CCSS.MATH.CONTENT.7.EE.B.4.A I can identify and fluently solve equations in the form $px+q=r$ and $p(x+q)=r$ (ex: The perimeter of a rectangle is 54 cm. Its length is 6 cm. What is its width?).</p>					
<p>CCSS.MATH.CONTENT.7.EE.B.4.A I can compare an arithmetic solution to an algebraic solution.</p>					
<p>CCSS.MATH.CONTENT.7.EE.B.4.B I can write and solve word problems leading to inequalities in the form $px+q>r$ or $px+q<r$.</p>					
<p>CCSS.MATH.CONTENT.7.EE.B.4.B I can graph and explain the solution of an inequality.</p>					

CCSS Mathematics "I Can" Standards
Geometry
Seventh Grade

Indicator	Date Taught	Date Retought	Date Reviewed	Date Assessed	Date Re-Assessed
Draw construct, and describe geometrical figures and describe the relationships between them.					
<p>CCSS.MATH.CONTENT.7.G.A.1 I can solve problems with scale drawings of geometric figures.</p>					
<p>CCSS.MATH.CONTENT.7.G.A.1 I can actual lengths and areas of a scale drawing and use them to create a different sized scale drawing.</p>					
<p>CCSS.MATH.CONTENT.7.G.A.2 I can draw geometric shapes with given conditions either freehand, with a ruler and protractor or with technology.</p>					
<p>CCSS.MATH.CONTENT.7.G.A.2 I can recognize and draw a triangle when given three measurements: three side lengths, three angle measurements or a combination of side lengths and angle measurements.</p>					
<p>CCSS.MATH.CONTENT.7.G.A.3 I can draw and describe geometrical figures including right rectangular prisms and right rectangular pyramids.</p>					
<p>CCSS.MATH.CONTENT.7.G.A.3 I can name the two-dimensional figures that represent a particular slice of a three-dimensional figure.</p>					

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Solve real-life and mathematical problems involving angle measure, area, surface area, and volume.					
<p>CCSS.MATH.CONTENT.7.G.B.4 I can state the formulas for the area and circumference of a circle and use them to solve problems.</p>					
<p>CCSS.MATH.CONTENT.7.G.B.4 I can explain the relationship between the circumference and the area of a circle.</p>					
<p>CCSS.MATH.CONTENT.7.G.B.5 I can use properties of supplementary, complementary, vertical and adjacent angles in multi-step problems to write and solve simple equations for an unknown angle in a figure.</p>					
<p>CCSS.MATH.CONTENT.7.G.B.6 I can solve problems involving area, volume and surface area of two-and three-dimensional figures.</p>					

**CCSS Mathematics "I Can" Standards
Statistics & Probability
Seventh Grade**

Indicator	Date Taught	Date Retought	Date Reviewed	Date Assessed	Date Re-Assessed
Use random sampling to draw inferences about a population.					
<p>CCSS.MATH.CONTENT.7.SP.A.1 I understand that inferences about a population can be made by examining a sample.</p>					
<p>CCSS.MATH.CONTENT.7.SP.A.1 I can understand why generalizations made about a population from a sample are only valid if the sample represents that population.</p>					
<p>CCSS.MATH.CONTENT.7.SP.A.2 I can use data from a random sampling to draw conclusions about a population (ex: Estimate the mean word length in a book by randomly sampling words from the book.).</p>					
<p>CCSS.MATH.CONTENT.7.SP.A.2 I can generate multiple samples to gauge predictions.</p>					
Draw informal comparative inferences about two populations.					
<p>CCSS.MATH.CONTENT.7.SP.B.3 I can find similarities and differences in two different data sets (including mean, median, etc.).</p>					
<p>CCSS.MATH.CONTENT.7.SP.B.4 I can compare and draw conclusions from two populations based off of their means, medians and/or ranges.</p>					
Investigate chance processes and develop, use, and evaluate probability models.					
<p>CCSS.MATH.CONTENT.7.SP.C.5 I can recognize and explain that the probability of a chance event is a number between 0 and 1 that expresses how likely an event is to occur (ex: When rolling a number cube 600 times, predict that a 3 or 6 would be rolled roughly 200 times, but probably not exactly 200 times.).</p>					
<p>CCSS.MATH.CONTENT.7.SP.C.6 I can collect data to approximate probability.</p>					
<p>CCSS.MATH.CONTENT.7.SP.C.6 I can use probability to predict the number of times an event will occur.</p>					

Indicator	Date Taught	Date Retaught	Date Reviewed	Date Assessed	Date Re-Assessed
Investigate chance processes and develop, use, and evaluate probability models. (continued)					
CCSS.MATH.CONTENT.7.SP.C.7 I can investigate, develop and use probabilities to help me solve problems.					
CCSS.MATH.CONTENT.7.SP.C.7 I can compare probabilities to observed frequencies.					
CCSS.MATH.CONTENT.7.SP.C.7.A I can develop a uniform probability model and use it to determine the probability of an event occurring.					
CCSS.MATH.CONTENT.7.SP.C.7.B I can develop a probability model by observing frequencies in data developed from a chance process.					
CCSS.MATH.CONTENT.7.SP.C.8 I can find probabilities of multiple events using organized lists, tables, tree diagrams and simulation.					
CCSS.MATH.CONTENT.7.SP.C.8.A I can use the sample space to compare the number of favorable outcomes to the total number of outcomes and determine the probability of the compound event.					
CCSS.MATH.CONTENT.7.SP.C.8.B I can explain the outcomes in the sample space that make up an event.					
CCSS.MATH.CONTENT.7.SP.C.8.C I can design and use simulation to predict the probability of a compound event.					